AW.

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

D.J. Biswas et al.

APR 0 7 2005

Confirmation No.: 6897

Application No.: 10/612,848

Art Unit: 2828

Filed: July 3, 2003

Examiner: Rodriguez, Armando

For: A PULSER DRIVEN, HELIUM FREE TRANSVERSELY EXCITED ATMOSPHERIC-PRESSURE (TEA) CO2 LASER

Attorney Docket No.: 3875.023

Customer No.: 000041288

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97 and §1.98

Mail Stop Amendment

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. §1.56, Applicants hereby notify the U.S. Patent and Trademark Office of the following documents listed in the specification for the above-identified application. Except for copies of documents corresponding to U.S. Patents and U.S. Patent Applications, copies of the documents set forth below and listed on the attached Form PTO/SB/08 are provided herewith.

1. P.E. Dyer and B.L. Tait, Improved Perfomance of Minirepetitively Pulsed CO_2 Lasers Using H_2 Buffered Gas Mixtures, Appl. Phy. Lett., 41(6):506-508 (1982).

U.S. PATENT APPLICATION NO.: 10/612,848 INFORMATION DISCLOSURE STATEMENT

ATTY DOCKET: 3875.023

- 2. P.E. Dyer and B.L. Tait, Miniature 250 Hz, TEA CO_2 Laser Using H_2 Buffered Gas Mixture, J. Phys. E: Sci. Instrum., 16:467-469 (1983).
- 3. M. Trtica et al., Short Delay Time UV Preionized TEA CO_2 Laser Operating with Binary CO_2/H_2 and CO_2/He Gas Mixtures, Opt. Quant. Electron., 16:511-516 (1984).
- 4. S. Marchetti et al., High Power, Helium Free, Superatmospheric CO_2 Mini-TEA Laser, J. de Physique, 48:C7-51 to C7-53 (1987).
- 5. U.S. Patent No. 4,264,868
- 6. D.J Biswas and J. Padma Nilaya, Repetitive Transversely Excited Gas Laser Pulsers, Prog. Quant. Electron. 26:1-63 (2002).
- 7. G.J. Ernst, Uniform-Field Electrodes with Minimum Width,
 Opt. Commun. 49:275-277 (1984).
- 8. A. Kumar et al., A Novel Method of Measuring the Delay Between Pre-Ionizing and Main Discharges in TE Gas Lasers, Meas. Sci. Technol. 12:1739-1742 (2001).

Document 1

Document 1 is in the English language.

ATTY DOCKET: 3875.023

Document 2

Document 2 is in the English language.

Document 3

Document 3 is in the English language.

Document 4

Document 4 is in the English language.

Document 5

Document 5 is in the English language.

Document 6

Document 6 is in the English language.

Document 7

Document 7 is in the English language.

Document 8

Document 8 is in the English language.

The present Information Disclosure Statement is being filed after three months from the application's filing date and after the mailing date of the first Office Action on the merits, but before a final Office Action or Notice of Allowance (whichever is earlier) and, therefore, Applicants are concurrently submitting herewith a fee under 37 C.F.R. § 1.17(p).

U.S. PATENT APPLICATION NO.: 10/612,848 INFORMATION DISCLOSURE STATEMENT

ATTY DOCKET: 3875.023

The submission of the listed document is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedated or otherwise remove any listed document as a competent reference against the claims of the present application.

Applicant respectfully requests that the listed documents be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP §609.

Respectfully submitted,

Req. No. 48,254

Pendorf & Cutliff 5111 Memorial Highway Tampa, Florida 33634-7356 (813)886-6085

Dated: April 4, 2005

Enclosures: Copy of documents 1 -4 and 6-8.

U.S. PATENT APPLICATION NO.: 10/612,848 INFORMATION DISCLOSURE STATEMENT

ATTY DOCKET: 3875.023

CERTIFICATE OF MAILING AND AUTHORIZATION TO CHARGE

I hereby certify that the foregoing INFORMATION DISCLOSURE STATEMENT Form PTO/SB/08A, including seven (7)documents, for U.S. Application No. 10/612,848 filed July 3, 2003, were deposited in first class U.S. mail, with sufficient postage, addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on April 4, 2005.

The Commissioner is hereby authorized to charge any additional fees which may be required at any time during the prosecution of this application without specific authorization, or credit any overpayment, to Deposit Account No. 16-0877.

John J. Martinez

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Reduction of information unless it contains a valid OMB control number.

nder the Pagenwork Reduction
Substitute for form 1449/PTO

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known			
Application Number	10/612,848	- "	
Filing Date	July 3, 2003		
First Named Inventor	D.J. Biswas		
Art Unit	2828		
Examiner Name	Rodriguez, Armando		
Attorney Docket Number	3875.023		

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	5	US- 4,264,868	04- 28,-1981	Leland, et al.	=
		US-			
		US-		- ' '	
		US-		 	
		US-			

•		FORE	IGN PATENT DOCU	MENTS		
Examiner Initials*	er Cite Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages		
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY	т, р, г,	Or Relevant Figures Appear	T
	ļ <u>.</u>					
						L
						L
						L
						Γ

Examiner	 Date	
Signature	Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03) Approved for use through 07/31/2006. OMB 0651-0031

Approved for use through 07/3 1/2006. OMB 0631-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

der the Paper of Reduction Act (\$1200.0) no persons are required to respond to a collection of information unless it contains a valid OMB control number.

APR 0 7 2005

Substitu	ite for form 1449/PTO	TRABE	MA		Complete if Known	\
Cabolila	10 101 101111 1440/1 10			Application Number	10/612,848	
INF	ORMATION	DIS	CLOSURE	Filing Date	July 3, 2003	
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	D.J. Biswas	
(Use as many sheets as necessary)				Art Unit	2828	
	(Use as many sne	ets as r	ecessary)	Examiner Name	Rodriguez, Armando	
Sheet	2	of	2	Attorney Docket Number	3875.023	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	1	1. P.E. Dyer and B.L. Tait, Improved Perfomance of Mini-repetitively Pulsed CO2 Lasers Using H2 Buffered Gas Mixtures, Appl. Phy. Lett., 41(6):506-508 (1982).	
-	2	2. P.E. Dyer and B.L. Tait, Miniature 250 Hz, TEA CO2 Laser Using H2 Buffered Gas Mixture, J. Phys. E: Sci. Instrum., 16:467-469 (1983).	
	3	3. M. Trtica et al., Short Delay Time UV Preionized TEA CO2 Laser Operating with Binary CO2/H2 and CO2/He Gas Mixtures, Opt. Quant. Electron., 16:511-516 (1984).	
	4	4. S. Marchetti et al., High Power, Helium Free, Superatmospheric CO2 Mini-TEA Laser, J. de Physique, 48:C7-51 to C7-53 (1987).	
	6	6. D.J Biswas and J. Padma Nilaya, Repetitive Transversely Excited Gas Laser Pulsers, Prog. Quant. Electron. 26:1-63 (2002).	
	7	7. G.J. Ernst, Uniform-Field Electrodes with Minimum Width, Opt. Commun. 49:275-277 (1984).	
	8	8. A. Kumar et al., A Novel Method of Measuring the Delay Between Pre-Ionizing and Main Discharges in TE Gas Lasers, Meas. Sci. Technol. 12:1739-1742 (2001).	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

1 This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.